

Transactions of the Mathematics (Cont.)

SOV/1281

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AVAILABLE: Library of Congress

LK/sfm
4-3-59

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BLYUMKIN, V.N.; VASLYANINA, N.I.

Rapid method of preparing iron hematoxylin for staining in multi-layer cell cultures. Vop. virus no.6:735-736 N.D. 1971.
(MIRA 17:6)
1. Institut virusologii AMN SSSR imeni D.I. Ivanovskogo, Moskva.

3/080/60/033/04/38/045

AUTHORS: Fialkov, A.S., Vaslyanina, O.V., Sukhoverkhov, V.F.

TITLE: New Graphitized Electrodes for Spectral Analysis

PERIODICAL: Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 4, pp 972 - 975

TEXT: The use of spectral electrodes of Soviet production leads usually to spectrograms with the lines of B, Si, Mg, Ca, Fe, Cu, Al and Ti, and therefore, they are not suited for the analysis of semiconductor materials. The gaseous method of purification was applied, therefore, which is widely used for the manufacture of graphite for atomic reactors. The active halogens, like chlorine and fluorine, convert ash admixtures into compounds which are completely eliminated at temperatures of 2,000 - 3,000°C. As halogen sources Freon-12, Freon-22 and elemental chlorine were used. It has been shown that chlorination eliminates all impurities except boron. This element is eliminated by fluorine. The best results are obtained, therefore, with a chlorine-fluorine mixture (Freon-12). The probable mechanism of the processes taking place during purification is discussed. A graph of the method proposed is given. There are: 1 table, 1 diagram, 1 graph, 1 photograph and 6 references, 3 of which are Soviet, 1 English, 1 American and 1 Hungarian.

SUBMITTED: October 19, 1959

Card 1/1

MOLDAVSKIY, O.D. (Moskva); PRONOV, A.P. (Moskva); Prinimali uchastiye:
VASLYANINA, O.V.; LUKASHEVICH, V.Ya.; KRYGLOVA, Ye.V.

Speed of removal of nonmetallic oxide inclusions in liquid steel. Izv.
AN SSSR. Met. i gor. delo no.5:23-34 S-0 '64.
(MIRA 18:1)

FINKEL', M.Ya., prinimali uchastiye: SHEVCHENKO, A.I.; KAUFMAN, A.S.,
[deceased]; STEPANENKO, V.S.; FEDOROV, N.I.; PAVLOVA, N.F.;
AYZEMBERG, L.G.; PAYNGOL'D, S.G.; LITVINNOVA, K.I.; VASLYAYEV,
G.P.; STETSENKO, Ye.Ya.; LITVINNOVA, O.Yu.; USTINOV, A.G.

Improvement of the saturation process in the production
of ammonium sulfate. Koks i khim. no.7:45-46 '60.
(MIEA 13:7)

1. Ukrainskiy uglekhimicheskij institut (for Finkel').
2. Yasinovskiy koksokhimicheskij zavod (for Vaslyayev).
3. Giprokok (for Ustinova).
(Ammonium sulfate)

VAS'L'YEVA, T.T.; KOST, V.N.

Action of diethylamine on polychlorofluoropropenes of
 $\text{CH}_2=\text{CXCF}_n\text{Cl}_{3-n}$ type. Izv. AN SSSR. Ser.khim. no.9:1587-1591
S '63. (MIRA 16:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
(Diethylamine) (Propene)

V48LYAY&Y, G.P

DIDENKO, V.Ye.; TSAREV, M.N.; DMITRIYEV, M.M.; LEVYTS, V.A.; OBUKHOVSKIY, Ya.M.; IVANOV, Ye.B.; CHERTOK, V.T.; URSALENKO, R.N.; KRIGER, I.Ya.; PINCHUK, A.K.; AFTONENKO, N.Z.; SMUL'SON, A.S.; VASIL'CHENKO, S.I.; DRASHKO, A.M.; RAYEVSKIY, B.N.; KUCHIRYAVENKO, D.N.; SAVCHUK, A.I.; ZHURAVLEVA, L.I.; BAUTIN, I.G.; KHRIYENKO, V.Ya.; MOSENKO, N.K.; CHEBONENKO, G.P.; LISSOV, L.K.; MAMONTOV, V.V.; BELUKHA, A.A.; POYDUN, V.F.; VOLODARSKIY, M.B.; KAL'CHENKO, G.D.; LEVCHENKO, V.M.; BASHKIROV, A.A.; VOROB'YEV, M.F.; IL'CHENKO, L.I.; PODSHIVALOV, F.S.; MOGIL'NYY, P.P.; LEVI, A.R.; VASLYAYEV, G.P.; DURNEV, V.V.; OSYPA, S.S.; SAMOFALOV, G.N.; FOMIN, A.F.; LESHCHINA, A.I.; FANKEL'BERG, G.Ye.; KHODANKOV, A.T.; SHEL-MAKARENKO, I.S.; KARPOVA, K.K.; VASILENKO, I.M.; VOLOSHCHUK, A.S.; NIKIKOV, A.K.; FILIPPOV, B.S.; TYUTYUNNIKOV, G.N.; DOLINSKIY, M.Yu.; NIKITINA, P.P.; MEDVEDEV, S.M.; TSOGLIN, M.E.; LERNER, R.Z.; BOGACHEV, V.I.

Mihail IAkovlevich Moroz; obituary. Koks i khim.no.3:64 '56. (MLRA 9:8)
(Moroz, Mihail IAkovlevich, 1902?-1956)

VASMANOV, V.V.

New input member based on graphically recorded functions for
calculating machines and instruments. Priborostroenie no.9:
6-8 S '56. (MLRA 9:10)

(Electronic calculating machines)

VASMANOV, V. V.

AID P - 5163

Subject : USSR/Engineering

Card 1/1 Pub. 103 - 4/19

Author : Vasmanov, V. V.

Title : Automatic control system of machine tools

Periodical : Stan. i instr., 6, 19-22, Je 1956

Abstract : The author describes Ferranty's system for automatic control of milling machines. It is developed by the English firm and was presented by D. Williamson at the conference on automation held in Margate, England, in June 1955. Six drawings.

Institution : As above

Submitted : No date

VASMANOV, V.V.

VASMANOV, V.V.

Investigating the precision of harmonic analysis in the case of the
use of harmonic analyzers. Trudy Inst. mash. Sem. po toch. v mash. i
prib. no.11:62-77 '57. (MIRA 10:12)
(Harmonic analysis) (Mathematical instruments)

28(2)

PHASE I BOOK EXPLOITATION

SOV/1238

Vasmanov, Vladimir Veniaminovich, Candidate of Technical Sciences

Vychislitel'nyye matematicheskiye pribory (Mathematical Computing Instruments)
Moscow, Mashgiz, 1958. 205 p. 7,000 copies printed.

Reviewer: Dostupov, B. G., Doctor of Technical Sciences; Eds.: Akushkiy, I.Ya.,
Candidate of Physical and Mathematical Sciences, and Kochetova, G. F.;
Tech. Ed.: Tikhonov, A. Ya.; Managing Ed. for Literature on Machine Building
and Instrument Making (Mashgiz): Pokrovskiy, N. V., Engineer.

PURPOSE: This book is intended for scientists, engineers and technicians engaged
in designing and using mathematical instruments.

COVERAGE: The book gives a systematic presentation of information on Soviet and
foreign mathematical instruments. The author refers especially to instruments
manufactured by Ott (West Germany), Coradi (Switzerland), Amsler (Switzerland),
Stanley (England), NII schetmash (USSR) and various Italian and American manu-
facturers. There are 128 references, of which 65 are English, 43 are Soviet,
including 4 translations, 12 German, 7 French and 1 Italian.

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Mathematical Computing Instruments

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3-11-59

MEYER ZUR CAPELLEN, Walther; VISHNEVSKIY, K.P. [translator]; NEMIROV,
Yu.G. [translator]; VASMANOV, V.V., red.

[Instrumental mathematics for engineers] Instrumental'naya
matematika dlia inzhenerov. Moskva, Fizmatgiz 1959. 379 p.
Translated from the German. (MIRA 14:2)
(Mathematical instruments)

[UAS manov U.V.

26(2) PHASE I BOOK EXPLOITATION SCV/2675

Moscow. Dva nauchno-tekhnichesky propagandy is. P. I. Dzerzhinskogo
Tehnicheskaya tekhnika i 1970 prilozheniya. (Computing Technique and Its
Application) Moscow, Gosizdat, 1959, 500 p. (Series: Obrabotka
po rasprostraneniyu politicheskikh i nauchnykh znamen. KSPN) 5,000 copies
printed.

M. (Title page), S. A. Lebedev, Akaademian. Ed. (Inside book): V.I. Savel'yev
Tech. Ed. G. I. Matveyev.

PURPOSE: This collection of articles is intended for scientific, engineering and technical personnel engaged in research, design and operation of digital and analog computers. It may also be used by students of universities specializing in computers.

CONTENT: The authors present fundamentals of digital computers, their elements and units such as arithmetic units, internal and external memory and control devices. They discuss the possibility of constructing computers using easily obtainable elements and consider the fundamentals in the theory of logical elements and their elements. They discuss problems of programming and explain the operation of analog computers and their elements. Brief discussion of mathematical instruments is also presented. The articles were presented at a computer seminar arranged by the Ministry of Radioelectronics and Technical Propaganda (now Dzerzhinsky) (Moscow Center for Scientific and Technical Propaganda) (now V. D. Dzerzhinsky) in 1957. No personalities are mentioned; References appear at the end of some articles.

Elizarov, A. M. Engineer. Construction of High-speed Computers Using

Semiconductor Elements

The author discusses the possibility of using transistors in computer elements and describes the following transistor circuits: multivibrator, pulse forming circuits, triggers and direct-coupled transistors. There are 4 references; 1 Soviet and 3 English.

Mashkovskiy, V. S. Devices of Series Computing Machines.

The author discusses component elements of series computing machines such as digital, trigger, circuits for transferring codes, adder and subtracting circuits and circuits for determining coincidence of two codes. He also describes the operation of a series-type memory unit. There are no references.

Ushakov, F. N. Candidate of Technical Sciences. Electronic Analogue Computers for Solving Differential Equations

The author presents a general discussion of analog computers and considers fields of their application. He presents a table of Soviet computers, giving specifications, year of manufacture and the developing organization. There are 5 references; all Soviet; (including 1 translation).

Ushakov, F. N. Candidate of Technical Sciences. Operational Units of

Analog Computers

The author discusses the operation of 4 units in a computer such as adder, integrator, differentiator, operational amplifier. He also describes the use of various industrial machinery such as rolling machines, hydraulic amplifiers, hydraulic motors, etc. for analog computers. There are no references.

Gol'dberg, E. A. Engineer. Use of Analog Computers in Engineering and

Science

The author discusses the use of analog computers for analytic performance of various different tasks. He presents a table of Soviet analog computers and discusses their circuits. There are no references.

Gol'dberg, E. A. Engineer. Methods of Setting up Problems for Analog

Computers and Checking Accuracy of Solutions

The author discusses the procedure of reducing problems to a form suitable for analog computers and describes methods of connecting various elements. He explains methods of determining proper scale factors and transfer coefficients and presents methods of analog computer accuracy. There are no references.

Jaschinski, L. D. Candidate of Technical Sciences. Modern Small Mathe-

matical Instruments

The author discusses the construction and operation of mathematical

instruments such as integrators, differentiators, etc.

He also describes how the analyses developed by Padé, Cramér and Hantel and

explain the operation of instruments for analyzing random functions.

There are 14 references; 7 Soviet; (including 4 translations) and 7 English.

VASMANOV, V.V., kand.tekhn.nauk

Improving the operation management of basic production. Trakt. f
sel'khozmash. no.3:35-37 Mr '65. (MIRA 18:5)

1. Nauchno-issledovatel'skiy institut tekhnologii traktornogo i
sel'skokhozyaystvennogo mashinostroyeniya.

VASMANOV, V.V., kand.tekhn.nauk

Mechanization and automation of production management in workshops.
Mekh.i avtom.proizv. 18 no.2:33-37 F '64. (M.R.A 17:4)

VASMUT, A.S.

Automation of map drawing and delineation operations abroad.
Geod. i kart. no.9:62-68 S '63. (MIRA 16:10)

VASMUT, A.S.; ANDRIANOV, K.I.

The variomat and its applicability in cartography. Geod. i kart. no.12:
55-61 D '63. (MIRA 17:1)

VASMUT, A.S.; ROGOV, A.B.

Nature of map projection and prospects for its development.
Geod. i kart. no.6:53-50 Je '64. (VJRA 17:9)

VASMUT, A.S.; MARTYNENKO, A.I.

Reading devices in cartography. Geod. i kart. no.12:46-53 D '64.
(MIRA 18:2)

VASMUT, A.S.; PETROV, G.N.; BALKANOV, A.F.; MULIN, A.I.

Concerning the automation of the reproduction of map titles and
point symbols. Geod. i kart. no.1:67-73 Ja '65.

(MIRA 18:3)

ACC NR: AP6007915

(A)

SOURCE CODE: UR/0006/66/000/002/0068/0075

AUTHOR: Vasmut, A. S.

15
B

ORG: none

TITLE: The use of computers for the automatic processing of cartographic images ✓

SOURCE: Geodeziya i kartografiya, no. 2, 1966, 68-75 160

TOPIC TAGS: cartography, computer application, character reading equipment

ABSTRACT: Various analytical methods for the description, recording, and reproduction of cartographic images, and also the possibility of their use in an automatic cartographic system were investigated. In general, the cartographic images (areal, linear, point) can be analytically described by using 1) a table of the coordinates of all points of an areal image with a constant step (x, y coordinates); 2) a table of the coordinates of isolated points of an areal image with a variable step (x, y coordinates); 3) a table of the coordinates of linear sign points with a constant step along the line length; 4) a table of the coordinates of the isolated points of linear signs with a variable step along the line length; 5) an analytical formula for the calculation of lines and their systems; and 6) the coordinates of isolated points of sign figures. The qualities of cartographic recording, i. e., its density, speed, reliability, the possibility of multiple reproduction, the simplicity in approach and storage, etc.,

Card 1/2

UDC: 528.9

1 39711-86

ACC NR: AP6007915

were investigated in detail, as well as the use of electromechanical, electronic and optical recorders. Orig. art. has: 1 figure.

SUB CODE: 08

Card 2/2 gd

VASNETSOV, N.S.

VASNETSOV, N.S., kandidat meditsinskikh nauk; DERBARENDINER, S.V.

Chorioepithelioma associated with pregnancy. Akush. i gin. no.3:
82-83 My-Je '54. (MLRA 7:8)

1. Iz patologicheskogo otdeleniya (konsul'tant prof. D.M. Khayutin)
Odesskoy oblastnoy klinicheskoy bol'nitsy (glavnyy vrach I.P.
Pelyarskiy)

(PREGNANCY, complications,
*brain tumor)

(BRAIN, neoplasms,
*in pregn.)

VASNETSOV, N.S.; VASNETSOVA, N.F. (Odessa)

Granular cell tumors of the ovaries in the young. Arkh.pat.
20 no.11:65-67 '58. (MIRA 12:8)

1. Iz kafedry khirurgii detskogo vozrasta s detskoy ortopediyey
(zav. - prof.M.L.Dmitriyev) i kafedry patologicheskoy anatomiⁱⁱ
(zav. - doktor med.nauk Ye.A.Uspenskiy) Odesskogo gosudar-
stvennogo meditsinskogo instituta imeni N.I.Pirogova.
(OVARIES--TUMORS)

VASNETSOV, N.S. (Odessa, Slobodka, ul. Saltykova-Shchedrina, d. 25, kv. 1)

Uterine changes in granulosa-cell tumors of the ovaries [with summary in English]. Vop.onk. 4 no.6:718-721 '58. (MIRA 12:1)

1. Iz kafedry patologicheskoy anatomi (zav. - doktor med. nauk prof. Ye.A. Uspenskiy) Odesskogo gosudarstvennogo meditsinskogo instituta imeni N.I. Pirogova (dir. - zasl. deyatel' nauki USSR prof. I. Ya. Deyneka).

(GRANULOSA CELL TUMOR, pathology,
uterine changes in ovarian tumors (Rus))
(UTERUS, pathol.
in granulosa cell tumor of ovaries (Rus))

Report on 9 cases treated with total hysterectomy and adnexitomy. In 6 patients of old age, the endometrium showed glandular hyperplasia corresponding to the proliferative phase of the menstrual cycle. In one case proliferative and secretory activity of the glands was found, and in 2 cases the endometrium showed decidual formations. In these latter 3 patients there were thus both oestrogen and progesterone effects.

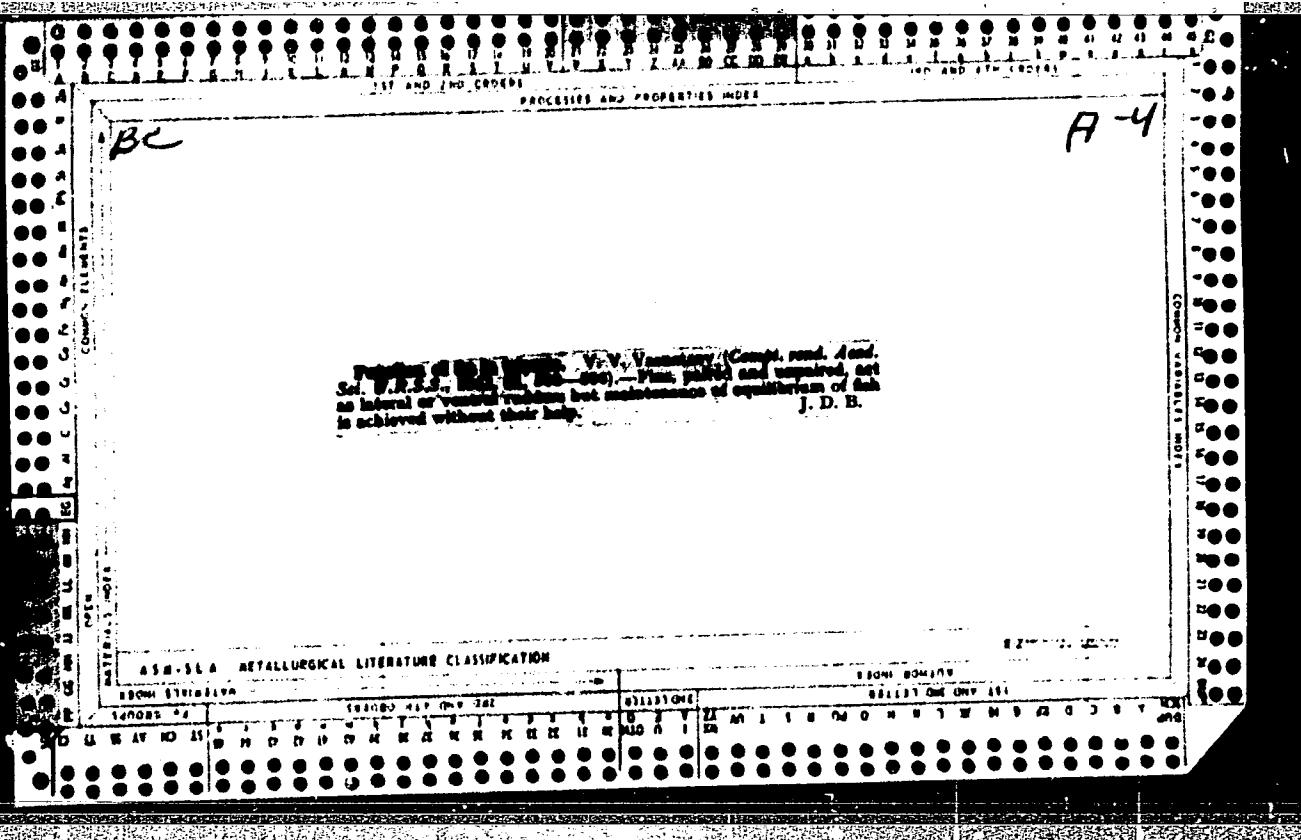
EVRANOVA, V.G., dotsent, kand. veterin. nauk; PAVLOVSKIY, Ye.N., prof. otv.red.; VASNETSOV, N.V., prof., red.; VERESHCHAGIN, M.N., prof., red.; ZAITSEV, V.G., prof., red.; KAZAKOV, Kh.Sh., prof., red.; MOSIN, V.V., prof., red.; STUDENTSOV, A.P., prof., red.; GALEYEV, V.V., dotsent, red.; LYSOV, V.F., dotsent, red.; RABINOVICH, M.P., dotsent, red.; SABIN, I.M., dotsent, red.

[Methods for the laboratory diagnosis of the principal helminthiases of farm and commercial animals and a comparative analysis of their efficiency]. Metody laboratornoi diagnostiki glavneshikh gel'mintozov sel'skokhoziaistvennykh promyslovykh zhivotnykh i srovnitel'nyi analiz ikh effektivnosti. Kazan', 1960. 417.p. (Kazan. Veterinarnyj institut. Uchenye zapiski, vol. 72).
(MIRA 17:7)

VASNETSOV, Valeriy Mikhaylovich; KOVAL'ZON, F.P., red.; PEREDERIY, S.P.,
tekhn. red.

[Work training of students at independent construction sites] Pro-
izvodstvennoe obuchenie uchachchikhsia na stroitel'stve samo-
stoyatel'nykh ob"ektov. Moskva, Vses. uchebno-pedagog. izd-vo Proftek-
izdat, 1961. 42 p.
(MIRA 14:10)

1. Direktor stroitel'nogo uchilishcha no.2 Permskoy oblasti (for
Vasnetsov).
(Building trades—Study and teaching)



VASNETSOV, V.V.

33959. VASNETSOV, V.V. K Poznani Yu Biologii. Ryb Ozyera. I, ssyk-kulv:
Trudy Vsyesoyuz. Gidrobiol O-Va, t I, 1949, S. 132-45.

SO: Letopis' Zhurnal'nykh Statey , Vol. 42, Moskva, 1949.

VASNETSOV, V.V.

Acclimatization of Amur River fish in bodies of water of the European part
of the U.S.S.R. Trudy Inst.morf.zhiv. no.5:5-10 '51. (MLRA 6:9)
(Fishes)

VASNETSOV, V.V.

The Amur carp *Xenocypris macrolepis* (Bleeker) as an object of acclimatization.
Trudy Inst.morf.zhiv. no.5:86-96 '51.
(MLRA 6:9)
(Carp)

VASNETSOV, V.V.

Possibility of the acclimatization of certain Amur River fish in bodies of
water of the European part of the U.S.S.R. Trudy Inst.morf.zhiv. no.5:117-
120 '51. (MLRA 6:9)
(Fishes)

VASNETSOV, V.V.; YEREMEYEV, Ye.F.; LANGE, N.O.

Role of the young of waste fishes in the development of the young of
commercial semi-migratory fishes. Trudy Inst.morf.shiv. no.10:219-243 '53.
(MLR 6:11)
(Fishes)

VASNETSOV, V.V.

Morphology. Zool. zhur. 32 no.6:1046-1051 N-D '53.

(MIRA 6:12)

1. Institut morfologii zhivotnykh Akademii nauk SSSR. (Morphology (Animal

VASNETSOV, V.V.

Artificial spawning beds for migratory fish. Vop. ikht. no.2:69-74
'54. (MIRA 8:5)

1. Institut morfologii zhivotnykh imeni A.N.Severtsova Akademii
nauk SSSR.
(Fishes--Migration) (Reproduction)

USSR / General Biology. Individual Development. Embryonic B Development.

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 14369
Author : Vasnetsov, V. V.; Yeremeyeva, Yo.; Lange, N. O.;
 Dimitriyeva, Ye. N.
Inst : Institute of Animal Morphology, Academy of
 Sciences USSR
Title : The Development Stages of Industrial, Semi-
 directed Fish of the Volga and Don, the Golden
 Shiner, Carp, Vobla, Roach Rutilus, Rutilus
 Heckeli and Pike Perch
Orig Pub : Tr. in-ta morfol. zhivotnykh. AN SSSR, 1957,
 vyp 16, 7-76
Abstract : The development stages of Abramis bramo (L.),
 Cyrpinus carpio, Rutilus rutilus caspicus
 (Iakoveow) (L.), Rutilus rutilus heckeli

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USSR / General Biology. Individual Development. Embryonic B Development.

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 14369

(Nordmann) and *Soc. cipoeca luciopocra* (L.), caught in the delta of the Volga and Don, were investigated. The development of the golden shiner, vobla and roach are very similar, the carp is characterized by spawning in portions and shedding the eggs at higher temperature in thoroughly warm, shallow water. All these species are characterized by 9 stages of approximately equal duration. In the pike perch stage A is divided into A_1 and A_2 , there are altogether 10 stages and, even though some of these stages may be compared with the corresponding stages in the carp, the general course of development deviates considerably. In the Volga,

Card 2/4

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USSR / General Biology. Individual Development. Embryonic B Development.

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 14369

the bottom constitutes the principal spawning ground and breeding place where the young keep themselves. In the Don spawning and breeding takes place in the flood-lands at the mouth of its tributaries. At early stages ecological differences are not apparent except for the fact that in the Don these stages are somewhat longer than in the Volga. However, the characteristics of the flood determine the lot of the young. In the Volga delta, if a sharp or early recession occurs or if development is retarded, the young remain at the bottom until the exit becomes barred. In the flood-lands of the Don the water-meadows remain dry if there is little water, and if there is

Card 3/4

USSR / General Biology. Individual Development. Embryonic B Development.

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 14369

high water the young are carried out, a phenomenon which occurs according to the data of 1950-1951 at the beginning of the G stage. The young should be let out of spawning and breeding establishments at the beginning of this same stage. -- A. G. Andres

Card 4/4

21

VASNETSOV, V.V.

Studying the behavior of semimigratory fishes in spawning grounds.
Trudy Astr. zap. no.5:163-179 '61. (MIRA 16:8)
(Volga Delta—Fishes—Migration) (Reproduction)

KAMINSKIY, M.I., dots.; KOROBOV, M.S.; STREBKOV, M.S.; VASNETSOVA, A.A.

Prospective complications in appendectomies and herniorrhaphies.
Nov.khir.arkh. no.1:67-70 '62. (MIRA 15:8)

1. Kafedra organizatsii zdravookhraneniya, kafedra khirurgii
Ukrainskogo instituta usovershenstvovaniya vrachey i 2-ya
bol'nitsa g. Khar'kova.
(APPENDECTOMY) (HERNIA)

VASNETSOV, N.S.; VASNETSOVA, N.F. (Odessa)

Granular cell tumors of the ovaries in the young. Arkh.pat.
20 no.11:65-67 '58. (MIRA 12:8)

1. Iz kafedry khirurgii detskogo vozrasta s detskoy ortopediyey
(zav. - prof.M.L.Dmitriyev) i kafedry patologicheskoy anatomiⁱ
(zav. - doktor med.nauk Ye.A.Uspenskiy) Odesskogo gosudar-
stvennogo meditsinskogo instituta imeni N.I.Pirogova.
(OVARIES--TUMORS)

USSR / Human and Animal Morphology (Normal and Pathological). The Peripheral Nervous System. S-2

Abs Jour: Ref Zhur-Biol., No 10, 1958, 45532.

Author : Vasnetsova-Tolperina, E. H.

Inst : Kazan Medical Institute

Title : Concerning the Innervation of the Gonad Membranes In Man and Animals.

Orig Pub: Sb. nauchn. rabot. Kazansk. med. in-t, Kazan', 1957, 440-447.

Abstract: The gonad membranes in man, dogs and cats were studied on cuts by means of the application of the impregnation method, according to Bil'shovsky-Gros-Lavrentyev. It was indicated that the testicle membrane contains a rich nervous apparatus with fascicles of medullated and unmedullated fibers, sensory and motor endings. The unmedullated fibers

Card 1/2

USSR / Human and Animal Morphology (Normal and Pathological). The Peripheral Nervous System. S-2

Abs Jour: Ref Zhur-Biol., No 10, 1958, 45533

Author : Abdullsev, M.S., Gadzhiev, G.A.

Inst : Azerbaydzhan Medical Institute

Title : Variants of the Innervation of the Cutaneous Nerves

Orig Pub: Sb. tr. Azerb. med. in-ta, 1956, vyp. e, 188-193.

Abstract: The anterior cutaneous femoral nerves (FN) depart in the first place, from the lumbar region (5 cases); in the second place, from the common trunk, together with the external cutaneous FN (6 cases); and, in the third place, from the femoral nerve (31 cases). The variants of the lateral cutaneous femoral nerve are divided into five groups. The most frequently encountered group is the one, where the nerve departs immediately from its lumbar plexus

Card 1/3

VASNEV, M.S.; ZHUKOV, Ye.K.

Industrial strontium carbonate is an effective substitute for scarce raw materials. Stek. i ker. 18 no. 7:33-34 Jl '61. (MIRA 14:7)
(Strontium carbonates)

VASNEV, N.F.; FOMIN, Ye.S.

New method for fastening inserts to copies in casting ingot molds.
Sbor.rats.predl.vnedr.v proizv. no.1:49 '61. (MIRA 14:7)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Founding)

KORSHAK, V.V.; KRONGAUZ, Ye.S.; GRIBKOVA, P.N.; VASNEV, V.A,

Coördination polymers. Part 5: Synthesis of bis (β -diketone) polymers with metals. Vysokom. soed. 3 no.8:1203-1207 Ag '61. (MIR 14:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
(Ketones) (Polymers)

3/190/02/004/006/004/026
3110/3138

151-87-86
AUTHORS: Korsnak, V. V., Krongauz, Ye. S., Gribkova, P. N., Vasnev,
V. A.

TITLE: Investigations in the field of polymers with coordination
chains. XIII. Study of the laws governing polycordination
reactions in solution.

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 6, 1962, 815-820

TEXT: The effect of experimental conditions on the molecular weight of
polymers was also investigated. 4,4'-bis-(acetoacetyl)diphenyl oxide, Zn^{2+}
whose polymer with Zn is soluble in dimethyl formamide, reacted with Zn^{2+}
ions. The amount of reacted tetraketone and the molecular weight of the
polymer were determined by titration of the terminal enol groups, using
Na methylate and thymol blue, as there is only one possibility for the
terminal groups: Tk-Me-Tk-Me...Tk-Me-Tk, where Me = metal and Tk = sub-
stituted tetraketone. Synthesis takes place by: (1) reaction of aqueous
alcoholic solutions of $Zn(CH_3COO)_2$ and I; (2) reaction of an aqueous
 $Zn(CH_3COO)_2$ solution with a benzene solution of I at the phase interface;

Card 1/4

Investigations in the field...

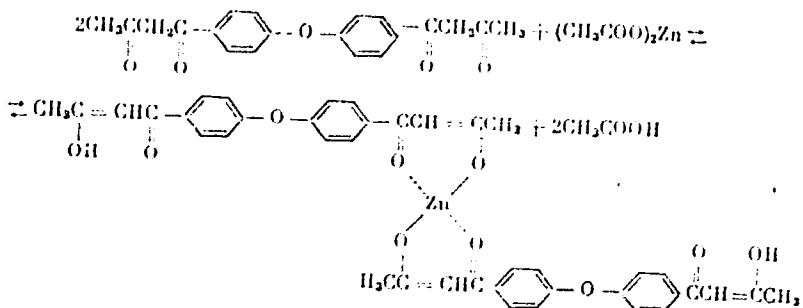
S/190/62/004/006/004/026
B110/B138

(3) condensation of an aqueous solution of acetic zinc ammoniate at the interface with solution I in n-xylene; (4) reaction of I with $Zn(CH_3COO)_2$ in dimethyl formamide solution. In the case of (1), 1 mole of alcoholic $Zn(CH_3COO)_2$ solution reacted with 1 mole solution of I at 20°C to ~ 80% of I during the first minutes, and to 85% after 1 hr. The molecular weight was 750 (dimer: Tk-Re-Tk). The dimer insoluble in methanol is precipitated and destroys the homogeneity of the reaction medium and the growth of the polymer chain. In the case of (2), polycondensation between the phases, the polymer chain grew more quickly. Interphase polycondensation produces polymers of higher molecular weight than equilibrium polycondensation. During the reaction of the benzene solution of I with the aqueous solution of $Zn(CH_3COO)_2$ at the interface

Card 2/4

Investigations in the field...

S/190/62/004/006/004/026
B110/B138



takes place. The acetic acid formed destroys the complex obtained. The destructive effect of acetic acid is stronger in the water-benzene medium than in methanol, owing to greater dissociation. In the case of (3) (ratio 1:2), I was almost completely polycondensed in a few minutes at 20 and 50°C, at a ratio of 1:1 and 20°C to about 85%. The trimer Tk-Me-Tk with molecular weight 1150 was obtained, as equilibrium set in between the initial zinc ammonium complex and the polymer complex of zinc which formed with I, the instability constants of which were about equal.

5/196/63/004/006/004/026
2110/3158

Investigations in the field...

Squimolecular amounts of I with the acetic zinc ammoniate in dimethyl formamide (N_2 atmosphere) at 140 - 150°C, after 0.5 hr, produced a polymer with 85 - 90% yield and molecular weight 1000 - 1100. The white product obtained after 7 hr was quite insoluble in dimethyl formamide. It was separated into: a fraction with molecular weight 750, soluble in chloroform, two fractions (mixture of trimer and tetramer), molecular weight 1200, soluble in dimethyl formamide; three insoluble, high-molecular fractions. Gradual growth of the polymer chain is assumed: high rate of polycoordination and formation of insoluble adducts in the first stage interrupt chain growth and cause formation of a low-molecular product. There are 2 tables.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Elemental-organic Compounds AS USSR)

SUBMITTED: February 28, 1961

Card 4/4

40731

5.3832

S/062/62/000/009/008/009
B119/B186

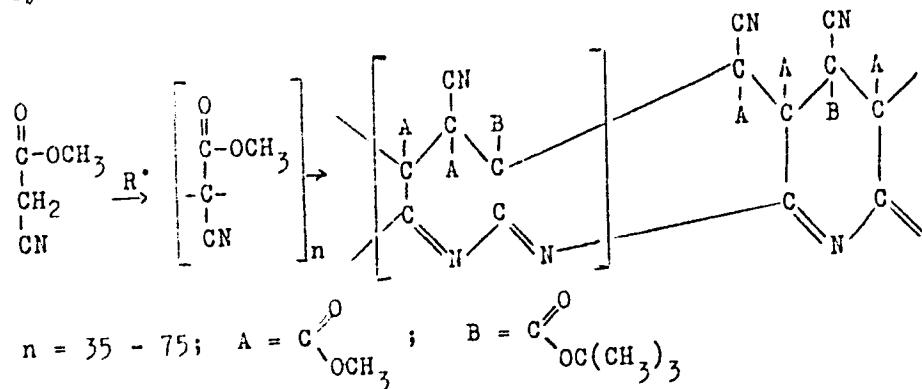
AUTHORS: Sosin, S. L., Korshak, V. V., Vasnev, V. A., and Baranov, Ye.L.
TITLE: Synthesis of polymers from nitriles of aliphatic acids
PERIODICAL: Akademiy nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 9, 1962, 1644 - 1650

TEXT: Cyanoacetic methyl ester (I), malonic dinitrile (II), and adipic dinitrile (III) were each of them polyrecombined by heating to 200°C in the presence of tertiary butyl peroxide. The resulting polymers underwent elementary analysis. Their IR and EPR spectra were studied and the probable reaction scheme was plotted from the data so obtained. I yielded a black powdery polymer soluble in dimethyl formamide, having a molecular weight of 3400 - 7300 (depending on the peroxide amount used); softening temperature 500°C; 70 % yield at a molar ratio peroxide : I = 1.5 : 1; reaction scheme

Card 1/4

S/062/62/000/009/008/009
B119/B186

Synthesis of polymers from

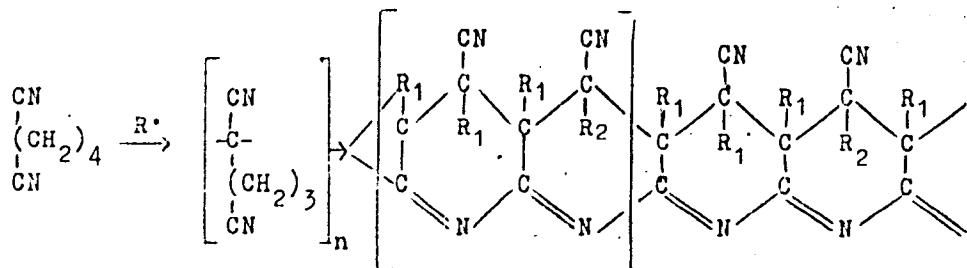


II gave a black powder soluble in dimethyl formamide; molecular weight 11,000; softening temperature 100°C; 50 % yield at a molar ratio peroxide : II = 1.5 : 1; reaction scheme

Card 2/4

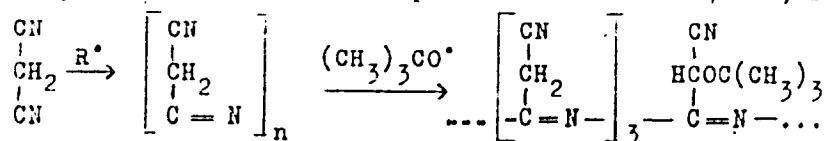
Synthesis of polymers from ...

5/062/62/000/009/008/009
B119/B186



$$n = 104; \quad R_1 = (\text{CH}_2)_3\text{CN}; \quad R_2 = \text{CH}[\text{OC}(\text{CH}_3)_3].(\text{CH}_2)_2\text{CN}$$

III too gave a black powder soluble in dimethyl formamide; molecular weight 5500 (maximum 6200 after fractionation); softening temperature 500°C; 75 % yield at a molar ratio peroxide : III = 0.4 : 1; reaction scheme



Card 3/4

Synthesis of polymers from ...

S/062/62/000/009/008/009
B119/B186

$n = 83-94$. The volume resistivity of the polymer from II increases exponentially with temperature (conductivity at 0°C : $5.37 \cdot 10^{12} \text{ ohm}^{-1} \cdot \text{cm}^{-1}$; at 20°C : $2.32 \cdot 10^{-11} \text{ ohm}^{-1} \cdot \text{cm}^{-1}$). There are 4 figures and 1 table. The most important English-language reference is: N. Grassil, J. C. McNeill, J. Pol. Sci. 27, 207 (1958). ✓

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds of the Academy of Sciences USSR)

SUBMITTED: March 1, 1962

Card 4/4

VASIEV, V.A.; SOSIN, S.L.; KOISHAK, V.V.

Study of the reaction of fatty and aromatic acid nitriles with
tertiary butyl peroxide. Izv. AN SSSR. Ser.khim. no.7:1312-
1319 J1 '63. (MIRA 16:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
(Nitriles) (Butyl peroxide)

KORSHAK, V.V.; SOSIN, S.L.; VASNEV, V.A.

Synthesis of polymers from the nitriles of aromatic and fatty acids by polyrecombination reaction. Dokl. AN SSSR 152 no.4: 872-874 O '63. (MIRA 16:11)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
2. Chlen-korrespondent AN SSSR (for Korshak).

VASNEV, V.A.; SOSIN, S.L.; KORSHAK, V.V.

Synthesis of polymers from diphenylmethane derivatives by means
of polyrecombination reaction. Izv.AN SSSR.Ser.khim. no.8:
1487-1496 Ag '63. (MIRA 16:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
(Polymers) (Methane)

L 22651-65 SWT(a)/EPF(c)/SMP(j) PC-4/Pr-4 RM/MLK

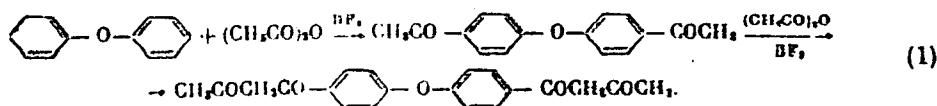
ACCESSION NR: AT5002130

S/0000/64/000/000/0173/0177

P-1

AUTHOR: Korshak, V. V.; Krongauz, Ye. S.; Gribkova, P. N.; Sheina, V. Ye.;
Vasnev, V. A.TITLE: Synthesis of bis-(beta-diketones)SOURCE: AN SSSR. Institut neftekhimicheskogo sinteza. Sintez i svoystva monomerov
(The synthesis and properties of monomers). Moscow, Izd-vo Nauka, 1964, 173-177

TOPIC TAGS: diketone synthesis, beta-diketone, aromatic diketone, diketone polymerization, organometallic complex, boron trifluoride, acetoacetylation

ABSTRACT: A direct method has been developed for preparing aromatic bis-(β -diketones) which can be polymerized to give coordination-bonded metal complexes, and a reaction mechanism for the ketone synthesis has been proposed. The aromatic compound are acetoacetylated in the presence of boron trifluoride with acetic anhydride. 4,4-Bis(acetoacetyl)diphenyloxide was derived from diphenyloxide as shown by the following equation:

Card 1/2

L 22651-65

ACCESSION NR: AT5002130

and by similar reactions the 4,4-bis-(acetoacetyl)- derivatives of diphenylmethane, diphenylethane, and of the diphenyl ethers of ethylene- and diethylene glycol were obtained. The best results were obtained when carbon trifluoride was rapidly added to the reaction system and this effect was shown to be related to the proposed reaction mechanism. Diacetylated ketones formed in the first step are further converted either to direct C-acetylation, or via an intermediate ketones and subsequent C-acetylation of the ester formed with the enol of the diketones. The first route is exclusive during the initial reaction period, while the second can become dominant as the acid concentration increases. It is shown that bis- β -diketones are formed and that the bis- β -diketones exist only in their enol form. Their reaction, either in the melt with acetylacetones or in solution with the acetates of Be, Cu, Ni, Zn, Mn, Co and Cd, yielded coordination chain polymers, most of which were highly colored and infusible powders which were insoluble in conventional organic solvents at 200-400C. Orig. art. has: 11 formulas.

ASSOCIATION: None

SUBMITTED: 30Jul64

ENCL: 00

SUB CODE: OC, GC

NO REF SOV: 006

OTHER: 010

Card

2/2

ACCESSION NR: AP4037282

S/0190/64/006/005/0843/0849

AUTHOR: Vasnev, V. A.; Sosin, S. L.; Korshak, V. V.

TITLE: Preparation of polymers by recombination from aromatic
and aliphatic nitriles

SOURCE: Vy*skomolekulyarnye soyedineniya, v. 6, no. 5, 1964,
843-849

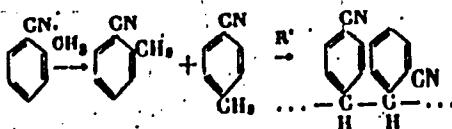
TOPIC TAGS: organic semiconductor, semiconducting polymer,
polynitrile, recombination, nitrile, aromatic nitrile, aliphatic
nitrile

ABSTRACT: A study has been made of 1) the polyrecombination of
an aromatic nitrile having no substituents such as methyl or methy-
lene, and 2) the synthesis of aliphatic nitrile copolymers showing
both high thermal stability and solubility in organic solvents
and softening without decomposition. In case 1, benzonitrile was

Card 1/3

ACCESSION NR: AP4037282

treated with tert-butyl peroxide to form a polymer:



The above polymer structure was confirmed by IR and elemental analysis. In case 2, a mixture of two nitriles was treated with tert-butyl peroxide: malonitrile and adiponitrile, α -tolunitrile, or diphenylmethane; methyl 2-cyanoacetate and α -tolunitrile or malonitrile. All the copolymers produced contained a system of conjugated C=N bonds in the backbone, gave an EPR signal, and had high decomposition temperatures (300-600°C), but showed no elasticity. As a rule, they were soluble in dimethylformamide and cresol only, and exhibited semiconducting properties. The temperature dependence of conductivity obeyed an exponential law.

Card 2/3

ACCESSION NR: AP4037282

Conductivity measured in vacuum (about 10^{-3} mm Hg) at 293 K ranged from $3.35 \cdot 10^{-22}$ to $9.33 \cdot 10^{-17}$ $\text{ohm}^{-1} \text{cm}^{-1}$, but at 225—300 C it reached $10^{-11} \text{ohm}^{-1} \text{cm}^{-1}$. This research was done at the Institute of Organoelemental Compounds of the Academy of Sciences USSR. Orig. art. has: 2 figures, 3 tables, and 6 formulas.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Organoelemental Compounds, AN SSSR)

SUBMITTED: 05Jun63

DATE ACQ: 09Jun64

ENCL: 00

SUB CODE: MT

NO REF Sov: 007

OTHER: 009

Card 3/3

SOSIN, S.L.; KORSHAK, V.V.; VASNEV, V.A.

Effect of polar factors in the polyrecombination reaction.
Dokl. AN SSSR 156 no. 5:1124-1126 Je '64. (MIRA 17:6)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
2. Chlen-korrespondent AN SSSR (for Korshak).

ACCESSION NO. 00513R001859020004-2

AUTHOR: Bochvar, D. A.; Sosin, S. L.; Korshak, V. V.; Tutkevich, A. V.; Vasnev, V. A.

1741. Gas-liquid chromatography of extracts of acetone and indicated the presence of

"APPROVED FOR RELEASE: 08/31/2001

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APPROVED FOR RELEASE: 08/31/2001

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CIA-RDP86-00513R001859020004-2

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APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001859020004-2"

L 09070-67 EWT(m)/EWP(1)/T IJP(c) RM

ACC NR: AP6015663 (1) SOURCE CODE: UR/0413/66/000/009/0074/0074

INVENTOR: Korshak, V. V.; Vinogradova, S. V.; Valetskiy, P. M.; Vasnev, V. A.

ORG: none

TITLE: Method of obtaining polyarylates. Class 39, No. 181283

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 74

TOPIC TAGS: polymer, polyarylate, aromatic ketone, aromatic hydrocarbon

ABSTRACT: An Author Certificate has been issued for a method of obtaining polyarylates. To simplify the technological process in the production of polymers, their separation and refining are carried out by extraction with organic ketone solvents and aromatic hydrocarbons. [Translation] [NT]

SUB CODE: 11/ SUBM DATE: 14Mar64/

Card 1/1 net

UDC: 678.673.025.4

V. N. V. A. G. A.

109-10-13/19

AUTHORS: Vasneva, G.A., Gaygerov, B.A., Grigor'yants, V.V.,
Telkin, G.A., and Zhabotinskiy, M.Ye.

TITLE: Phase-lock Automatic Frequency Control of Klystrons by
means of a Molecular Oscillator (Fazovaya avtopodstroyka
klystrona po molekulyarnomu generatoru)

PERIODICAL: Radiotekhnika i Elektronika, 1957, Vol.II, No.10,
p. 1300 (USSR).

ABSTRACT: The frequency of a 2.5 cm, 10 mW klystron was stabilised
by means of a molecular oscillator. A second harmonic of the
klystron and the signal of the molecular oscillator were applied
to a balanced mixer and the resulting difference-frequency
signal was applied to a phase detector. A signal from a quartz
stabilised oscillator, operating at 50 Mc/s, was also fed to
the detector. The output voltage of the detector was applied to
the reflector of the klystron, as a result of which the klystron
had a pull-in bandwidth of 0.15 Mc/s and a synchronisation
bandwidth of 0.5 Mc/s. There are 6 references, 5 of which are
Slavic.

ASSOCIATION: The Institute of Radio-engineering and Electronics
Ac.Sc. USSR (Institut radiotekhniki i elektroniki AN SSSR)

Card 1/1

VASNEVA, G.A.; GRIGOR'YANTS, V.V.; ZHABOTINSKIY, M.Ye.; KLYSHKO, D.N.;
SVERDLOV, Yu.L.; SVERCHKOV, Ye.L.

Circuit for comparing the frequencies of quartz and molecular
oscillators. Izv.vys.ucheb.zav.; radiofiz. 1 no.2:185-187 '58.
(MIRA 11:11)

1. Institut radiotekhniki i elektroniki AN SSSR.
(Oscillations)

SC7-10)-3-4-20/25

AUTHORS: Vasneva, G. A., Grigor'yants, V. V., Zhabotinskiy, N. Ye., Klyshko, D. N., Sverdlov, Yu. L. and Sverchikov, Ye. I.

TITLE: Frequency Standard with a Molecular Oscillator (Reper chastoty s molekuljarnym generatorom)

PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol.3, Nr 4, pp 569-570 (USSR)

ABSTRACT: Description and block diagram are given of a molecular oscillator which was employed for the calibration of quartz crystals operating at a frequency of 1 Mc/s. The frequency of the oscillator was compared with the 23,368th harmonic of the frequency of the investigated crystal and an accuracy better than 10^{-9} was attained. There is 1 figure and 2 references, one of which is Soviet and 1 English.

ASSOCIATION: Institut radiotekhniki i elektroniki AN SSSR (Institute of Radio Engineering and Electronics of the AS USSR)

SUBMITTED: December 3, 1957

1. Oscillators--Applications 2. Quartz crystals--Calibration

Card 1/1

L 2325-66 EWA(k)/FBD/EWT(1)/EEC(k)-2/T/EWP(k)/EWA(m)-2/EWA(h) SCTB /
IJP(6) ACCESSION NR: ^{WG} AP5021560 UR/0286/65/000/013/0028/0029
621.375.8:535.813

AUTHORS: Zhabotinskiy, M. Ye.; Vasneva, G. A.

TITLE: Method of combining the power of lasers with the coherent operation of each. Class 21, No. 172357

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1965, 28-29

TOPIC TAGS: laser beam control

ABSTRACT: This author certificate presents a method for the coherent lumping of power of individual lasers. To increase the power and directivity of the laser emission, one part of the beam is deflected, distributed between the adjacent lasers (see Fig. 1 of the Enclosure), and directed into phase shifters for scanning the beams. Orig. art. has: 1 figure. [04]

ASSOCIATION: none

SUBMITTED: 11Apr63

ENCL: 01

SUB CODE: EC

NO REF SOV: 000

OTHER: 000

ATD PRESS: 4/67

Card 1/2

L 2325-66
ACCESSION NR: AP5021560

ENCLOSURE: 01
0

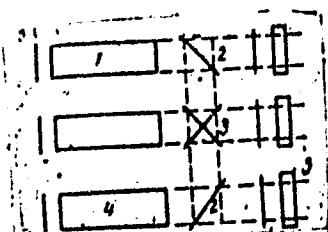


Fig. 1.

1 - Laser; 2 - semitransparent mirror; 3 - crossed mirrors;
4 - laser; 5 - phase shifter.

Card 2/2 Md

VASNIN M.K.

VASNIN, M.K., inzhener

Reinforced concrete scaffold bridge for trains and road traffic.
(MLRA 8:11)
Tekh.zhel.dor. 7 no.6:24-25 Je'48.
(Bridges, Concrete)

VASNIN, M.K., inzhener; RVACHEV, I.F., inzhener.

New overpass on Yaroslavl Road. Gor.khoz.Mosk. 28 no.6:28-29
Je '54. (MLRA 7:7)
(Moscow--Viaducts) (Viaducts--Moscow)

VASNIN, N.M., inzh.

Universal assembling welding apparatus. Ratsionalizatsiia no.8:
23-24 '62.

VASNIN, N.M., inzh.

Universal assembling and welding equipment. Svar. proizv. no.3:
(MIRA 15:2)
35-36 Mr '62.
(Welding--Equipment and supplies)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001859020004-2

APPROVED FOR RELEASE: 08/31/2001

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CIA-RDP86-00513R001859020004-2

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001859020004-2"

VASOJEVIC, S., doc.dr; DIKLIC, D., dr; TEDESKI, B., dr; TAKIC, S., dr;
STANKOVIC, M., dr; CIRIC, D., dr; PETROVIC, M., dr.

Our experience with scarlet fever in 1957. Med.glasn. 14 no.7/8:
387-390 Jl-Ag '60.

1. Klinika za infektivne bolesti Medicinskog fakulteta u Beogradu
(Upravnik: prof. dr M.Milosevic)
(SCARLET FEVER epidemiol)

VASOJEVIC, S., doc. dr.; SUVAKOVIC, V., dr.; CIRIC, D., dr.; GROZA, A., dr.

Infectious hepatitis and hepatic coma (report of 3 cases). Med.
glasn. 15 no.7/8:330-334 Jl-Ag '61.

1. Klinika za infektivne bolesti Medicinskog fakulteta u Beogradu
(Zamenik upravnika: doc. dr M. Nikolic).

(HEPATITIS INFECTIOUS compl)
(HEPATIC COMA etiol)

MILOSEVIC, Milorad, prof., dr.; VASOJEVIC, Stevan; MANOK, Milorad;
GROZA, Aleksandar

A case of a syndrome of exudative erythema multiforme (Stevens-
Johnson syndrome). Srpski arh. celok. lek. 89 no.4:471-475 Ap '61.

1. Infektivna klinika Medicinskog fakulteta Univerziteta u Beogradu.
Upravnik: prof. dr. Milorad Milosevic. Dermatoveneroloska klinika
Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr
Sima Ilic.

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prof. dr. Jovan Cekic.
(STRONGYLOIDIASIS ther)
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Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 2678.

Author : Kohn, R., ~~Wasotro, I.~~

Inst : Not given.

Title : Electrochemical Problems in the Process of Purification of Juice During Defecosaturation.

Orig Pub: Listy cukrovarn., 1955, 71, No 12, 283-290.

Abstract: No abstract.

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L 04698-67 FWT(1) JT-2/GW
ACC NR: AP6029216

SOURCE CODE: UR/0095/66/000/008/0031/0032

AUTHOR: Vasov, O. F.; Turkot, I. A.ORG: [Vasov] Technical Administration of the Ministry of Construction UzSSR,
Tashkent (Tekhnicheskoye upravleniye Ministerstva stroitel'stva UzSSR); [Turkot]
Uzgiprokommungaz, TashkentTITLE: Seismic resistance of the gas network of Tashkent

SOURCE: Stroitel'stvo truboprovodov, no. 8, 1966, 31-32

TOPIC TAGS: earthquakeproof construction, gas pipeline, seismic resistance,
Tashkent earthquake, utility line constructionABSTRACT: The series of earthquakes (intensity 2-8) that struck Tashkent in the
period from 26 April through May caused the greatest damage to the older
structures in the city that had been built before the introduction of earth-
quakeproofing techniques. The modern buildings and utility pipelines,
especially the gas pipelines, escaped with relatively little damage.The Tashkent gas network was built in the period since 1959 by the
Uzgiprokommungaz Institute following Construction Regulation SN-8-57 for
water and sewer pipelines. This regulation allowed for a considerable
degree of elastic deformation. A subsequent regulation for such construc-
tion projects in seismically active regions, SNiP [Construction Norms and

UDC: 621.643:669.841

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L 04698-67

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Regulations] II-G 13-62, issued in 1963, called for thicker walls for underground pipes. Since this was found to substantially lessen pipe resistance to seismic tremors, the regulation was subsequently rescinded. None of the gas lines in Uzbekistan were built with extra-thick pipe walls.

During the series of quakes, not a single break occurred in the surface or underground gas lines. Water lines suffered some damage. Asbestos-cement and cast-iron pipes were most vulnerable to the tremors. The damage that did occur in steel pipes was found to have been in spots previously weakened by electrochemical corrosion. The successful survival of the Tashkent gas lines will be taken into account in future construction.

Orig. art. has: 3 figures. [ATD PRESS: 5057-F]

SUB CODE: 08, 13 / SUBM DATE: none

Card 2/2 f.v

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aureomycin, ointment)

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